

Title (en)  
IMPROVED WAVEGUIDE AND LIGHTING DEVICE

Title (de)  
VERBESSERTER WELLENLEITER UND BELEUCHTVORRICHTUNG

Title (fr)  
GUIDE D'ONDES ET DISPOSITIF D'ECLAIRAGE AMELIORES

Publication  
**EP 1932032 A1 20080618 (EN)**

Application  
**EP 06796004 A 20060912**

Priority  
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• EP 06796004 A 20060912

Abstract (en)  
[origin: WO2007034363A1] A waveguide (40; 51 ; 61), arranged to guide light from at least one light source (53a-c), the waveguide comprising at least one guiding edge (43; 50a-c; 60) adapted to contain the light in the waveguide (40; 51 ; 61), and an extraction edge (44; 50d) adapted to enable extraction of the light from the waveguide (40; 51 ; 61), wherein the guiding edge (43; 50a-c; 60) is configured to reflect the light on its way towards the extraction edge (44; 50d). The guiding edge (43; 50a-c; 60) is further configured such that a direction (xrl, Xr2) of reflection of a ray of light impinging on the guiding edge (43; 50a-c; 60), in a given direction (xi) of incidence relative to a general direction (X0) of extension of the guiding edge (43; 50a-c; 60), is dependent on a position (P1, P2) of incidence along the guiding edge (43; 50a-c; 60). The waveguide may be configured such that virtually no light is lost through back-scattering or unintentional extraction or outcoupling through the at least one guiding edge.

IPC 8 full level  
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**G02B 6/0036** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007034363A1

Citation (examination)  
• US 2003048628 A1 20030313 - LEE KEUN-WOO [KR], et al  
• US 2002135560 A1 20020926 - AKAOKA HIROKI [JP]

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